

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (currently amended) A ~~three-dimensional~~ three-dimensional ~~[[CAD]]~~ Computer Aided Design (CAD) model of a composite part to include a plurality of plies including a tool side ply and a subsequent ply and to be formed on a tool having a shape, the model comprising:

a first CAD native geometric shape representative of the shape of the tool;

a second CAD native geometric shape representative of the tool side ply~~[[; and]]~~ , wherein the second CAD native geometric shape further comprising ~~a first trimmed CAD native geometric shape being a trim of the first CAD native geometric shape; and~~

a stacking order determined by a name of a collector for the first trimmed CAD native geometric shape and a name of a collector for the second trimmed CAD native geometric shape.

2. (cancelled)

3. (currently amended) The model of claim ~~[[2]]~~ 1, further comprising a property associated with the first trimmed CAD native geometric shape.

4. (currently amended) The model of claim 3, the property being representative of a material to be selected for the tool side ply.

5. (previously presented) The model of claim 3, the property being representative of an orientation to be selected for the tool side ply.

6. (currently amended) The model of claim ~~[[2]]~~ 1, the first trimmed CAD native geometric shape further comprising a surface.

7. (currently amended) The model of claim ~~[[2]]~~ 1, the first trimmed CAD native geometric shape further comprising a sheet solid.

8. (currently amended) The model of claim ~~[[2]]~~ 1, further comprising a second trimmed CAD native geometric shape representative of the subsequent ply.

9. (cancelled)

10. (previously presented) The model of claim 8, further comprising an offset by which the second trimmed CAD native geometric shape is offset from the first trimmed CAD native geometric shape.

11. (original) The model of claim 10, further comprising a stacking order defined by the offset.

12. (previously presented) The model of claim 1, further comprising a second trimmed CAD native geometric shape draped on the first trimmed CAD native geometric shape.

13. (currently amended) A method of ~~three-dimensional~~ three-dimensional ~~[[CAD]]~~ Computer Aided Design (CAD) modeling of a composite part to include a plurality of plies including a tool side ply and a subsequent ply, and to be formed on a tool, the method comprising:

representing a shape of the tool with a first CAD native geometric shape;

representing the tool side ply with a second CAD native geometric shape by starting with the first CAD native geometric shape and trimming the first CAD native geometric shape to create the second CAD native geometric shape; and

locating the tool side ply adjacent the first CAD native geometric shape~~[[; and]]~~ .

~~wherein the representing the tool side ply further comprises trimming the first CAD native geometric shape whereby the second CAD native geometric shape is created.~~

14. (previously presented) The method of claim 13, further comprising associating a property with the second CAD native geometric shape.

15. (original) The method of claim 14, further comprising representing a material to be selected for the tool side ply with the property.

16. (original) The method of claim 14, further comprising representing an orientation to be selected for the tool side ply with the property.

17. (previously presented) The method of claim 14, further comprising: representing the subsequent ply with a third CAD native geometric shape; and offsetting the third CAD native geometric shape from the first CAD native geometric shape by a distance.

18. (previously presented) The method of claim 17, further comprising draping the third CAD native geometric shape on the second CAD native geometric shape.

19. (cancelled)

20. (currently amended) The method of claim 13, wherein the second CAD native geometric shape is a surface.

21. (currently amended) The method of claim 13, wherein the second CAD native geometric shape is a sheet solid.

22. (previously presented) The method of claim 13, further comprising representing the subsequent ply with a third CAD native geometric shape and locating

the third CAD native geometric shape adjacent the second CAD native geometric shape.

23. (previously presented) The method of claim 22, further comprising defining a stacking order with a name of a collector for the second CAD native geometric shape and a name of a collector for the third CAD native geometric shape.

24-27. (cancelled)

28. (new) The method of claim 13, further comprising:
accessing a file including the three-dimensional CAD model of the composite part; and
viewing the model with a low-end viewer.